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Payable Invariably in Advance

PAPIER MACHE.

Description of Its Manufacture, and Some of Its Numerous Uses.

The manufacture of papier mache (literally, "chewed paper") forms an important branch of the paper industry. Who does not remember those projectiles of our school days which we called "spit-balls," and which when thrown at a wall or ceiling adhered thereto with tenacity? What was most striking about these balls was their extraordinary hardness after they became thoroughly dry, this being the more marked in proportion as the chewing had been more perfect.

It was through observing such hardness that the idea occurred to some one to employ paper pulp in the manufacture of various objects. Yet the substance employed in the industry is not a "mashed" paper in the absolute sense of the word, but is a paper converted into a soft cardboard by mechanical processes.

In the manufacture of papier mache, the raw material used is a bluish-gray, unsized, strong, fine-grained paper. The sheets may be compared (whiteness, which is of no account, being excepted) to Annanay lithographic paper. Cotton forms the basis of it.

These sheets are pasted together by means of a layer of dextrine or starch, applied with a steel spatula. When the desired thickness has been obtained, the mass is put into a hydraulic press that operates in a highly heated drying room. Under the immense pressure of this apparatus there forms a solid block, which is as hard as boxwood or ebony, and which is perfectly plane or has the form of the mold in which the raw material, so ductile when moist and so hard when dry, was compressed. It can be molded into any shape whatever, that of table legs, chair arms, rose-work, moldings, etc.

This sort of wood, without pores, sap, fibers and knots, is capable of being worked with the saw, the gouge, the rasp and the lathe. It can be polished, if need be, although this operation is reserved for the thick black varnish that is applied to it in several coats with an intervening stay of a night in a very hot, air-heated drying room. When it comes from the latter the varnish is very hard, and is free from blisters and cracks. It is possible that many of the objects that are offered to us as being finished with Japan or Chinese lacquer are merely impregnated and covered with a mixture of gum copal, bitumen, resin and other hydrocarbons impregnated with lamp-black and color in certain proportions.

The baking is the important point. When this operation has been too greatly prolonged, the varnish scales off and cracks; and when it has not been carried to a sufficient extent, the surface remains sticky. It is not necessary, then, to exceed a certain temperature, always higher than one hundred degrees.

This molded and pressed paper can be easily turned in the lathe, and made into light and indestructible balls and beads, or be fashioned into ink-stands, caskets and cylinders.

It is from this substance that are manufactured all those bracelets of large black beads studded with Scotch imitation diamonds, all those necklaces, pins, clasps and trinkets of all sorts that are taken for pitch coal or some precious wood. Again, those handsome bracelets composed of semi-lucid and opaline globules that seem to have been cut out of a stone formed of concentric layers, like certain precious stones, are merely of papier mache, cemented with white varnish and coated with the same. So, too, those beautiful nacreous, painted and gilded trays, round tables, and caskets that are known as Japanese work are merely papier mache. The Japanese know but one kind of gilding, while we have two—the dead and the brilliant. We have, likewise, a liquid nacre taken from the scales of the white-bait that well imitates the white currant and certain transparent berries. The nacre is solidly inlaid by means of the hydraulic press, and finally the surface is finished with pumice stone in order to make it perfectly even, and covered with a colorless varnish of the first quality.—*Bulletin des Fabricants de Papier.*

Around the World.

The passage of the steamer Alameda from Auckland to San Francisco in twenty-three days and six hours reduces the time of the trip around the world to fifty-nine days.

Advertisements.

Claus Spreckels Wm. G. Irwin.

CLAUS SPRECKELS & CO.,

BANKERS.

HONOLULU HAWAIIAN ISLANDS

Draw Exchange on the principal parts of the world.

Will receive deposits on open account, make collections and conduct a general banking and exchange business.

Deposits bearing interest received in their Savings Department subject to published rules and regulations.

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CLAUS SPRECKELS. WM. G. IRWIN.

WM. G. IRWIN & Co.,

SUGAR FACTORS and Commission

AGENTS, Honolulu, H. I. 16-17-18

MACFARLANE & CO.,

WHOLESALE DEALERS and General

Jobbers in WINES and LIQUORS.

No. 12 Kaahumanu Street,

HONOLULU. 28-1

M. PHILLIPS & Co.,

Importers and Wholesale Dealers in

Clothing, Boots, Shoes, Hats, Men's Furnish-

ing and Fancy Goods, No. 11 Kaahumanu Street,

Honolulu, H. I. 25-1

H. HACKFELD & CO.,

GENERAL COMMISSION AGENTS.

Queen St., Honolulu, H. I.

ED. HOFFSCHLAEGEL & CO.,

Importers and Commission Merchants.

Queen Street, Honolulu, H. I. 27-1

WM. McCANDLESS,

No. 5 Queen Street,

Fish Market. Dealer in choice BEEF, VEAL,

MUTTON, FISH, etc.

Family and Sundry Orders carefully attended to. Live Stock, fresh to vessels at short notice, and vegetables of all kinds supplied to order.

29-1

New Photograph Rooms.

OVER NICHOLS STORE, FORT STREET,

next the Shooting Gallery. Pictures, Portraits and Views. First-class work. Satisfaction guaranteed. Hagedorn & A. GOSWALDY.

Wing Wo Chan & Co.

Opposite Freeth & Peacock's,

NUUANU ST.

NEW GOODS!

NEW GOODS!

JUST RECEIVED.

A Large Assortment of Magnificent EBONY and Cinnamon-wood

FURNITURE,

Marble-top and inlaid with Pearl.

—ALSO—

Silks of all Varieties.

MATING in all colors, including a new design never seen before in this city.

Inspection invited. 507 apr 29

WENNER & CO.

92 Fort Street.

Have on hand New Foreign and Homemade Jewelry.

Watches, Bracelets, Necklets,

Pins, Lockets, Clocks,

And ornaments of all kinds.

Silver and Gold Plate.

Elegant Solid Silver Tea Sets.

Suitable for Presentation.

ENGRAVING and NATIVE JEWELRY

A Specialty.

Repairing in all its branches.

Sole Agents for King's Eye Presses.

44-may-1887

Advertisements.

ROYAL INSURANCE COMPANY

OF LIVERPOOL.

CAPITAL — \$10,000,000

UNLIMITED LIABILITY.

Fire Insurance of all description

will be effected at Moderate Rates of Premium, by the undersigned,

WM. G. IRWIN & CO.,

Managers for Haw. Islands

UNION

Fire and Marine Insurance Co.

Of New Zealand.

CAPITAL — \$10,000,000

Having Established an Agency at

Honolulu, for the Hawaiian Islands, the undersigned are prepared to accept risks against Fire in dwellings, stores, warehouses and merchandise, on favorable terms. Marine risks, on cargo, freight, bottomry, profits and commissions.

Losses promptly adjusted & payable

WM. G. IRWIN & CO.

THOMAS LINDSAY

Manufacturing Jeweler,

No. 60 Nuananu Street,

Honolulu, H. I.

Particular attention paid to repairing. 32-1

The Risdon

Iron & Locomotive Works,

Corner of Beal and Howard Streets,

SAN FRANCISCO, CALIFORNIA

W. H. TAYLOR, President

JOS. MOORE, Superintendent

BUILDERS OF STEAM MACHINERY, IN ALL

its branches: Steamboat, Steamship, Land

Engines and Boilers, High Pressure or Com-

pound.

STEAM VESSELS of all kinds built complete

with hulls of wood, iron or composite.

ORDINARY ENGINES compounded when ad-

visable.

STEAM LAUNCHES, Barges and Steam Tugs con-

structed with reference to the trade in which

they are to be employed. Speed, tonnage and

draft of water guaranteed.

SUGAR MILLS and Sugar Making Machinery

made after the most approved plans. Also, all

Boiler iron Work connected therewith.

WATER PIPE, of Boiler or Sheet Iron, of any

size, made in suitable lengths for connecting

together, or Sheets Rolled, Flashed and Packed

for shipment, ready to be riveted on the

ground.

HYDRAULIC RIVETING, Boiler Work and

Water Pipes made by this establishment, rivet-

ed by hydraulic riveting machinery, that

quality of work being far superior to hand

work.

SHIP WORK, Ship and Steam Captains, Steam

Winches, Air and Circulating Pumps, made

after the most approved plans.

SOLE AGENTS and manufacturers for the Pacific

Coast of the Home Safety Boiler.

PUMPS—Direct Acting Pumps for irrigation or

city works' purposes, built with the celebrated

Day Valve Motion, superior to any other

pump.

J. N. S. WILLIAMS, Honolulu

Room No. 3, upstairs, Spreckels' Block,

551-mar-22&wtf Agent for Hawaiian Islands.

THE

BEAVER SALOON.

NO. 1 FORT STREET.

(Opposite Wilder & Co.)

H. J. Nolte, Propr.

OPEN FROM 3 A. M. TILL 10 P. M.

FIRST-CLASS LUNCHES, COFFEE,

TEA, SODA WATER, GINGER ALE,

Cigars and Tobaccos

OF BEST BRANDS

Plain and Fancy PIPES personally selected from

the Manufacturers, and a Large Variety

of BEST QUALITY

SMOKERS' ARTICLES.

Lovers of BILLIARDS will find an Elegant

BRUNSWICK & CO. BILLIARD TABLE

on the Premises.

The Proprietor would be pleased to receive a call

from his Friends and the Public generally

who may desire a

LUNCH, A SMOKE, OR A GAME OF

BILLIARDS.

H. J. NOLTE,

J. IVANOVICH CO.

Importers, Wholesale Dealers and Commission

Merchants in

Foreign & Domestic Fruit.

500 Washington, and 603 & 605 Sansone Sts.,

SAN FRANCISCO.

This is the oldest established house in this

line of business in San Francisco, and we are

prepared to fill orders of all kinds in our line.

SPECIALTY in PACKING all kinds of FRUIT

for long distance markets.

Your Patronage is Solicited

545-mar-1887

Advertisements.

INTER-ISLAND

Steam Navigation Co.

(LIMITED.)

STEAMER W. G. HALL,

(MALULANI)

BATES, Commandant

Will run regularly to Maiala, Maui, and Kona

and Kau, Hawaii.

STEAMER IWALANI,

FREEMAN, Commandant

Will run regularly to Nawiliwili, Koloa, Eleele

and Waimea, Kauai.

STEAMER C. R. BISHOP,

MACAULEY, Commandant

Will run regularly to Hanalei, Maui, and Kuku-

haele, Honolulu and Paahoa, Hawaii.

STEAMER JAMES MAKEE,

WEIR, Commandant

Will run regularly to Kapaa, Kauai.

T. R. FOSTER, President.

J. ENA, Secretary.

WILDER'S STEAMSHIP CO.,

Limited.

STEAMER KINAU,

(Lorenzen, Commandant)

Leaves Honolulu as per following schedule

on Monday, July 24, 1886, and

on every alternate Monday at 4 P. M., the Kinau

will make the VOLCANO TRIP, reaching Kona

on Wednesday morning, where horses and

carriages are in waiting to convey passengers to

the VOLCANO HOUSE (five miles in the saddle

and nine miles by carriage).

Passengers by this route will have two days

and two nights at the VOLCANO HOUSE.

TICKETS FOR THE ROUND TRIP TO THE

VOLCANO, FIFTY DOLLARS, WHICH PAYS

ALL CHARGES.

The Kinau will arrive in Honolulu Sunday

morning on Volcano trips. On Hilo trips, will

arrive on Tuesday, and return Saturday

morning.

PASSENGER TRAINS will connect with the

Kinau at Mahukona.

The Kinau WILL TOUCH at Honolulu and

Paahoa on down trips from Hilo for Passengers

if a signal is made from the shore.

STEAMER LIKEIKE,

(Davis, Commandant)

Leaves Honolulu every Monday at 5 P. M. for

Kauai, Kaula, Kure, Hana, and

Kipahulu, every week; Kona, Mokuauia and Niihau

every other week. Returning, will stop at the

above ports, arriving back Saturday morning.

*** For mails and passengers only.**

STEAMER KILAUEA HOU,

(Chambers, Commandant)

Will leave regularly for Lahaina, Paahoa, Kona,

Oahu, Kaula, Kure, Hana, and Kipahulu, every

week; Kona, Mokuauia, and Niihau, every other

week. Returning, will stop at the above ports,

arriving back Saturday morning.

*** For mails and passengers only.**

STEAMER LEHUA,

(Clark, Commandant)

Will leave regularly for same ports as Kilauea

Hou.

STEAMER MOKOLI,